

METHOD AND SYSTEM FOR IMPROVED FLUID FLOW WITHIN AN ELECTROCHEMICAL CELL

ABSTRACT

Treated porous flow field members are used to support membranes in electrochemical cells and to enhance fluid flow to and from the membrane. The treated porous includes a support material having at least a portion thereof treated with a quantity of hydrophobic polymer, a quantity of hydrophilic polymer, or a quantity of a mixture of a hydrophobic polymer and a hydrophilic polymer. Depending on the type of treatment and the placement of the polymer-treated porous support, various fluid flow enhancements are attained.